That which is claimed is:

- 1. A method of preparing a metal-silicone rubber composite, the method comprising the steps of:
 - (i) depositing a layer of gold on a surface of a mold;
- (ii) depositing a primer layer of a metal on the layer of gold, wherein the metal is selected from aluminum, chromium, titanium, and copper;
 - (iii) applying a radiation-curable silicone composition on the primer layer;
 - (iv) curing the silicone composition with radiation to form a silicone rubber; and
- (v) removing the silicone rubber from the mold, whereby the layer of gold and the primer layer are transferred to the silicone rubber.
- 2. The method according to claim 1, wherein the surface of the mold has a release coating thereon.
- 3. The method according to claims 1 or 2, wherein the layer of gold has a thickness of from 25 to 500 nm.
- 4. The method according to claims 1, 2, or 3, wherein the primer layer has a thickness of from 1 to 50 nm.
 - 5. The method according to claims 1, 2, 3, or 4, wherein the primer layer is aluminum.
- 6. The method according to clams 1, 2, 3, 4, or 5, wherein the radiation-curable silicone composition comprises (i) an organopolysiloxane containing radiation-sensitive functional groups and (ii) a photoinitiator.
- 7. The method according to claims 1, 2, 3, 4, 5 or 6, wherein the radiation-curable silicone composition comprises (i) an organopolysiloxane having an average of at least two alkenyl groups per molecule, (ii) a mercapto-functional compound in an amount sufficient to cure the composition, and (iii) a catalytic amount of a photoinitiator.



- 8. The method according to claim 7, wherein the radiation-curable silicone composition comprises (A) an organopolysiloxane having an average of at least two alkenyl groups per molecule, a number-average molecular weight of from 1,000 to 50,000, and an average of from 10 to 90 mol% of silicon-bonded phenyl groups per molecule;
- (B) a mercapto-functional compound in an amount sufficient to cure the composition, wherein the mercapto-functional compound is selected from (i) a mercapto-functional organosiloxane having an average of at least two mercaptoalkyl groups per molecule and (ii) a mercapto-functional organic compound having an average of at least two mercapto groups per molecule, and
 - (C) a catalytic amount of a photoinitiator.
- 9. The method according to claim 8, wherein the radiation-curable silicone composition further comprises (D) a liquid crystal miscible in components (A) and (B) combined, wherein the liquid crystal is selected from (i) at least one compound having the formula:

$$R^{1}$$
 X_{n} R^{1}

and (ii) a mixture comprising (i) and from 1 to 10% of at least one terphenyl compound having the formula:

$$R^{1}$$
 R^{1}

wherein each R^1 is independently selected from C_1 to C_{20} alkyl, C_5 to C_8 cycloalkyl, $-OR^2$, $-O(O=)CR^2$, -C=N, $-NO_2$, $-CH=CHCOOR^2$, -F, -Cl, -Br, and -I, wherein R^2 is C_1 to C_{20} alkyl, X is a divalent organic group selected from -CH=N-, -N=N-, -N=N(O)-, -CH=CH-, -C=C-, -C(=O)O-, and -CH=N-N=CH-, and n is 0 or 1.